

STUDY OF THE RELATIONSHIP BETWEEN
SUSCEPTIBILITY TO CERTAIN CANCERS AND
ARYL HYDROCARBON HYDROXYLASE (AHH) INDUCIBILITY

December 1973

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Background:

Evidence for AHH inducibility in human peripheral blood lymphocytes being closely associated with susceptibility to bronchogenic carcinoma has been recently provided by Kellerman, et al (New Engl. J. Med., November 1, 1973, Page 934).

These workers maintain that such AHH inducibility is controlled by a single genetic locus with 2 alleles; a low inducible allele A and a high inducible allele B. If the lung cancer risk is taken as 1 for AA persons, then it is estimated that the risk for an AB person is 16 and for a BB person is 36. These are very high risk values, at least as high as those associated with cigarette smoking.

Further studies of AHH inducibility are most certainly needed.

1-Lung cancer: Can the results of Kellerman and his colleagues be repeated? If they can, then what is the relationship between AHH inducibility and the risk to lung cancer as it is affected by 1) increasing age, 2) cigarette smoking habits, 3) cell type, and 4) exposure to occupational or atmospheric carcinogens.

2-Other "chemically induced tumors": Is there any relationship between AHH inducibility in peripheral blood lymphocytes and tumors of the larynx, bladder, esophagus, nasopharynx, colon, etcetera?

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Proposed Study:

Our initial task is to establish a repeatable test of AHH inducibility in human peripheral lymphocytes. To this end collaborative arrangements have been made with Dr. Richard E. Kouri at Microbiological Associates. Once the test is established we propose to obtain specimens of 15-30 ml of heparinized blood from two hospitalized population groups.

- 1-Patients with lung cancer and controls, and,
- 2-Persons with cancer of other sites such as those listed above.

Each patient will be interviewed to obtain basic information on age, race, socio-economic status, residence, occupation, and smoking history prior to the obtaining of a blood sample. All patients will be asked to sign a consent form after the details of the study have been explained to them. All information collected will be kept strictly confidential although the results of the assay will be available to the patient through his physician if so requested. (The questionnaire and consent form used are attached)

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Identifying information
 Run number 3 HOBP
 Study
 Reservoir H. No. 7/12/1974
 Date blood drawn
 Amount
 Time
 Max. Quinine at 0.3 - 61.5 (a)
 Calibration factor (60/(a)) = 0.9756 (b)
 Remarks

	(c) PHR (hrs)	(d) MC (y/n)	(e) MC (hrs)	(f) BP (mins)	(g) Rel. Inten. (250)	(h) Linear Corr.	(i) Correlation Corr	(j) Net Intensity	(k) g * j * b	(l) (g-h) * j * b	(m) (g-i) * j * b	(n) k - soln.
21	-	-	-	-	0.01	-	-	0.0205	-	-	-	-
19	-	-	-	-	0.01	-	-	0.0185	-	-	-	-
76	26.7	16	0.01	0.741	0.481	0.585	0.516	0.516	0.516	0.516	0.516	0.516
76	26.7	16	0.01	0.741	0.481	0.585	0.516	0.516	0.516	0.516	0.516	0.516
75	26.7	16	0.01	0.732	0.471	0.576	0.537	0.537	0.537	0.537	0.537	0.537
46	11	10.2	0.03	1.346	1.024	1.046	1.151	1.151	1.151	1.151	1.151	1.151
86	11.5	12.8	0.03	2.517	2.180	2.142	2.322	2.322	2.322	2.322	2.322	2.322
38	3.4	4.0	0.1	3.79	3.317	3.512	3.512	3.512	3.512	3.512	3.512	3.512
52	3.9	4.3	0.1	5.073	4.693	4.654	4.624	4.624	4.624	4.624	4.624	4.624
66	2.6	0.5	0.1	6.439	6.185	6.134	6.124	6.124	6.124	6.124	6.124	6.124

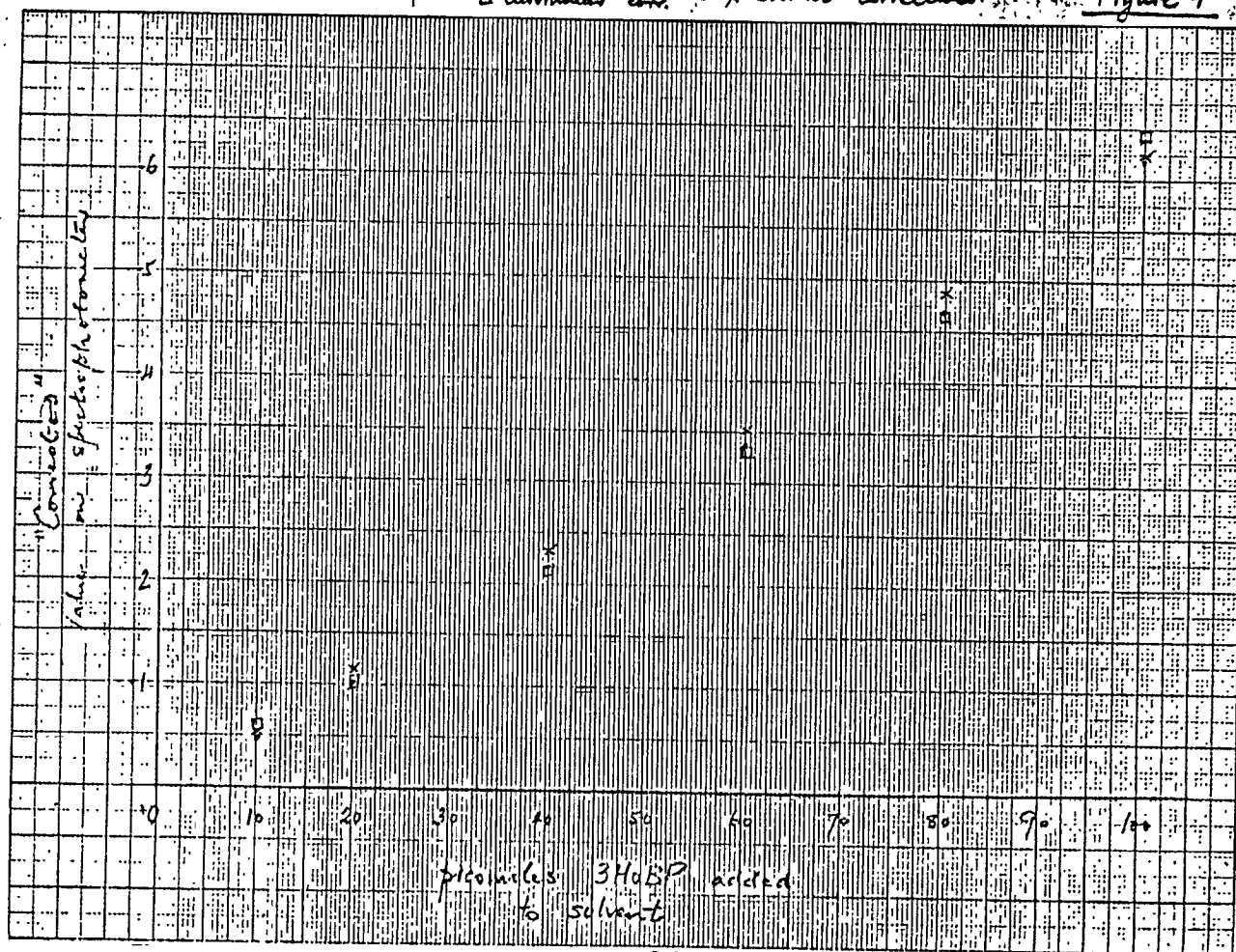
Comments:

K&E 10 X 10 TO THE CENTIMETER 10 X 10 CM.
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• linear correction
□ Curvilinear corr. x solvent correction

Figure 1



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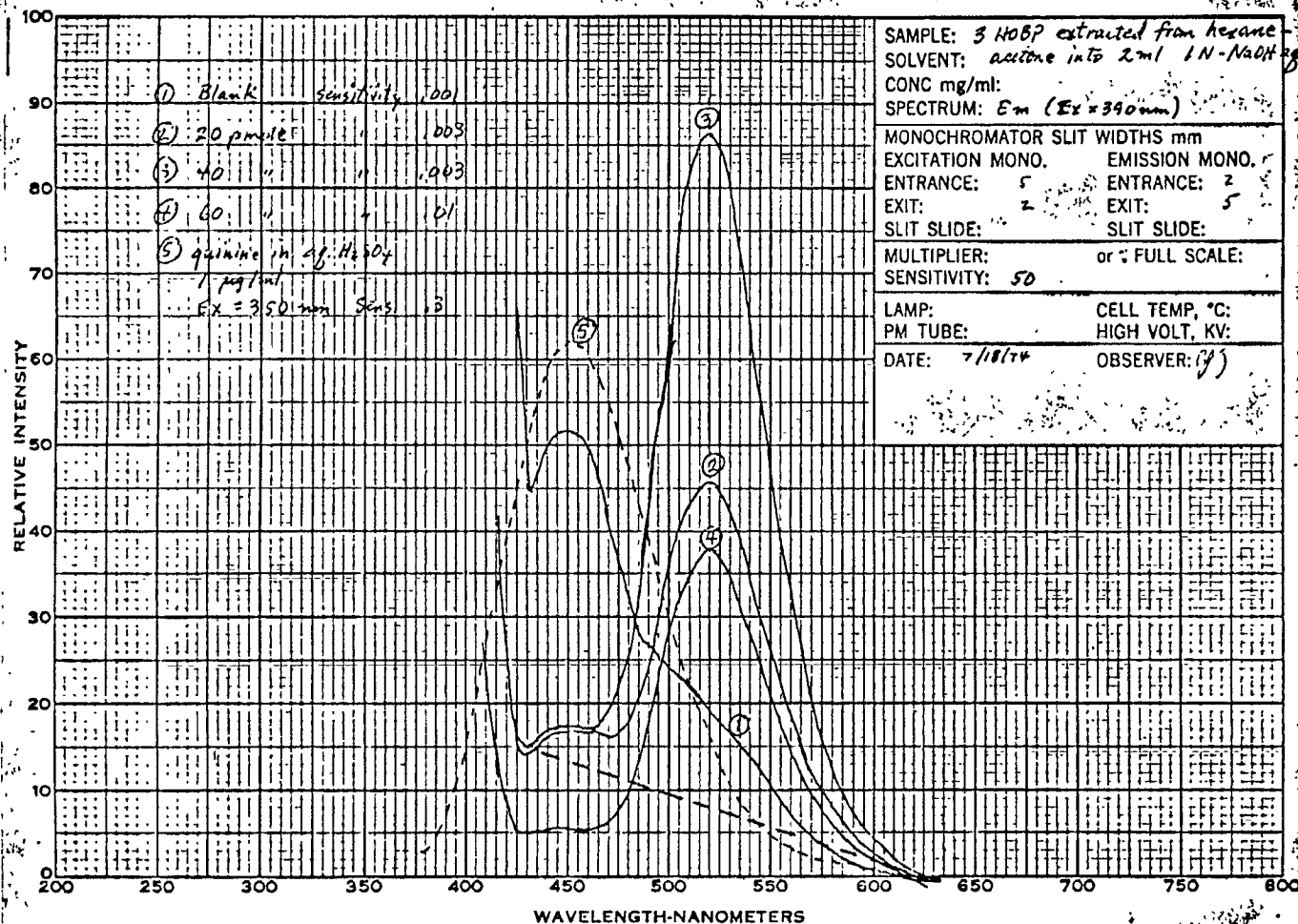
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Figure 2



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Identifying information
 - AHH Study
 - Greg Dwyer

See observation by - Fitch
 lymphocyte count
 FHH added at

Max. Quinine at 0.3-7.0 (a)
 Calibration factor (60/a) = .8451 (b)

Reservoir H No. 3/26/1974
 Date blood drawn 3/26/1974
 Amount

Remarks

(c) PHH (hrs)	(d) MC (T/H)	(e) MC (hrs)	(f) BP (mins)	(g) Rel. lichen (25%)	(h) Juven. Corr.	(i) Carcinoma Corr.	(j) lichen lichen	(k) g*j*b	(l) (g-h)*j*b	(m) (g-i)*j*b	(n) k-sol
66 N 24	60	60	68	19	.003	.1597	.116	.1356	constant level	constant level	BP zero level - no spec. peak
66 N 24	60	72	32	.003	.1825	.1014	.1584	constant level	constant level		
66 N 24	0	17		.003	.0241						
66 N 24	0	11.5	5	.003	.0304						
66 Y 24	0	13.5		.003							
66 Y 24	60	97.5	17	.003	.1863	.1432	.1559	constant level	constant level		
66 Y 24	60	97.5	15.7	.003	.2072	.2074	.2168				
66 Y 24	60	33	7.7	.01	.2789	.2138	.2145				
66 Y 24	60	112.5	12.8	.003	.1078	.0702	.0837	constant level	constant level		

Comments: CC day date 8/30/1974
 using straight line correction
 average constant level = .0947
 using level = .1881
 Rti = 1.99

CURRICULUM VITAE

February, 1974

A. Personal Information:

Name: Malcolm Cecil Pike

Social Security No: **REDACTED**

Business Address: U.S.C. School of Medicine
Department of Community Medicine
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Business Phone: 223-1379

Home Address: **REDACTED**

Home Phone: **REDACTED**

Date of Birth: **REDACTED**

Place of Birth: **REDACTED**

Citizenship: **REDACTED**

Sex: **REDACTED**

Marital Status: **REDACTED**

Wife's Name: **REDACTED**

Number of Children: **REDACTED**

B. Education:

High School: Selborne College, East London,
South Africa, **R**

University: University of the Witwatersrand,
Johannesburg, South Africa, B. Sc.,
Mathematics, Pure and Applied, 1955.

University of the Witwatersrand,
Johannesburg, South Africa, B.Sc.
Honours, Mathematics, Pure, 1956.

Birkbeck College, London University
London, England, Post Graduate studies
in Statistics, 1957.

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Malcolm C. Pike, Ph.D.

B. Education: (Continued)

Cambridge University, Cambridge
England, Diploma in Mathematical
Statistics, 1958.

Aberdeen University, Aberdeen, Scot-
land, Ph.D., 1963.

Honors and Awards:

1969, Awarded the Guy Medal in bronze
of the Royal Statistical Society for
work on "Disease Clustering"

1972- Associate Editor for Medical
Statistics and Epidemiology of Bio-
metrics.

1972-73, Member of the Board of the
British Journal of Haematology

1972-73, Member of the Board of the
British Journal of Cancer.

1972-73, Member of the Council of
the Royal Statistical Society.

C. Professional Background:

REDACTED

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REDACTED

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Malcolm C. Pike, Ph.D.

C. Professional Background: (Continued)

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REDACTED

D. Society Memberships:

REDACTED

E. Consultantships:

Developmental Research Segment,
Virus Cancer Program, NCI.
Cancer Control Program, NCI.

F. Research Activities:

Research Interest:

Cancer Epidemiology and Clinical
Trials

Research in Progress:

Epidemiology of Hodgkin's Disease,
Breast Cancer, Lung Cancer. Clinical
Trials in Childhood Tumors.

Grants:

U.K. Department of Health and
Social Security. Annual grant of
\$100,000 1972, 1973. Pratt Corporation

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10. Grant, G., Roe, F.J.C., and Pike, M.C.: Effect of neonatal thymectomy on the induction of papillomata and carcinomata by 3,4-benzopyrene in mice. Nature 210: 603-604, 1966.
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16. Pike, M.C., Till, M.M., Hardisty, R.M., and Doll, R.: Childhood leukaemia in greater London: A search for evidence of clustering. Brit. med. J. 3: 755-758, 1967.
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58. Peto, R. and Pike, M.C.: Leukaemia trials. Truelove, S., (ed.): Medical Surveys and Clinical Trials. Oxford, England, Blackwell's Publishing Company, 1974.
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Letters to the Editor

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Computer Algorithms

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1003536192

CURRICULUM VITAE

November 2, 1973

A. PERSONAL INFORMATION

1. Name: John Cavendish Brown
Social Security #
2. Business Address: University of Southern California
School of Medicine
2025 Zonal Avenue, OCD 104
Los Angeles, California 90033
3. Business Phone: (213) 225-3115, Extension 7-3234
4. Home Address: _____
5. Home Phone: _____
6. Birthdate: _____
7. Birthplace: _____
8. Citizenship: _____
9. Sex: _____
10. Marital Status: _____
11. Wife's first name: _____
12. Number of Children: _____

REDACTED

REDACTED

B. EDUCATION

1. High School: Rutlish School, Merton, England
2. College, Medical School: King's College, Strand, London
Westminster Medical School, London
3. Internship: Surgery/Obstetrics
Westminster Hospital, London
1962-1963
4. Residency: Internal Medicine
St. James's Hospital, Balham,
England, 1963-1964

Internal Medicine
Royal Postgraduate Medical School
Hammersmith Hospital, London,
1964-1966

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5. Fellowships:

Rheumatic Diseases and Immunology
Department of Medicine
University of California Medical
Center, San Francisco, California
1966-1968

6. Honors and Awards:

Chadwick Clinical Surgery Prize
Westminster Medical School, 1962

7. Licensure:

General Medical Council, England
California State

8. Board Certification:

Internal Medicine Boards
Royal College of Physicians, London
1965

C. PROFESSIONAL BACKGROUND

1. Academic Appointments:

1968-1971

Member of Scientific Staff
Medical Research Council
Rheumatism Research Unit
Taplow, Berks, England

1971 - 1974

Assistant Professor of Medicine
University of Southern California
Clinical Immunology and Rheumatic
Disease Section

2. Teaching Responsibilities:

REDACTED

Medicine

3rd Year Basic Medical Clerkship
Residents Board Review

Rheumatology

2nd Year Musculo-Skeletal Curriculum
Fellow, Resident and Intern teaching
Weekly ward rounds and clinics
2nd Year Medical Student elective in
Musculo-Skeletal Disease

Immunology

Intern, Resident and Fellow teaching
in Clinical Immunology
Seminars in Cellular Immunology -
Medical Student Microbiology Course
Reading Course in Cellular Immunology
Graduate Students in Microbiology

3. Military Service:

REDACTED

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D. SOCIETY MEMBERSHIPS

- 1.
- 2.
- 3.

REDACTED**E. CONSULTANTSHIPS**

1. Attending Staff, USC/Los Angeles County Medical Center
2. Consulting Rheumatologist; Martin Luther King Hospital and Charles Drew Post Graduate Medical School.

F. RESEARCH ACTIVITIES

1. Bibliography appended
2. Major areas of interest:

- a) Cellular immunology related to rheumatic disease.
- b) Maturation of human lymphoid tissue in relation to surface determinants on lymphocytes.
- c) Studies on surface membranes of chronic lymphocytic leukemic lymphocytes.
- d) Cell mediated immunity to RNA tumor viruses

3. Book

Title: Practical Rheumatology
Publisher: W. B. Saunders
Authors: J. C. Brown and D. M. Forrester

Scheduled for publication in 1974

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D. SOCIETY MEMBERSHIPS

- 1.
- 2.
- 3.

REDACTED

E. CONSULTANTSHIPS

Attending Staff, USC/Los Angeles County Medical Center

F. RESEARCH ACTIVITIES

1. Bibliography appended

2. Major areas of interest:

- a) Cellular immunology related to rheumatic disease.
- b) Maturation of human lymphoid tissue in relation to surface determinants on lymphocytes.
- c) Studies on surface membranes of chronic lymphocytic leukemic lymphocytes.

3. Research now in progress:

- a) Synthesis of immunoglobulin determinants on the surface of human lymphocytes.
- b) Development and maturation of human lymphoid tissue.
- c) Clinical Immunology - Immunologic profile of chronic active hepatitis, primary biliary cirrhosis, leprosy and sarcoidosis.

4. Book

Title: Practical Rheumatology
Publisher: W. B. Saunders
Authors: J.C. Brown and D.M. Forrester

Scheduled for publication in 1974

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BIBLIOGRAPHY

John Cavendish Brown, M.D., M.B., M.R.C.P.

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B. Education:

High School	North Hollywood High School.
University	University of California, Los Angeles
	B.S. Chemistry, 1947
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C. Professional Background:

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D. Society Memberships: responsibilities:

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E. Consultantships:

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Bibliography Appended.

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Study of air pollution and other environmental factors in
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